Response to OA of October 11, 2007 Ser. No. 10/553.568

AMENDMENTS TO THE CLAIMS

Detailed Listing of All Claims 1-19:

- 1 (Currently amended). An Electric electric motor cartridge (1) configured for insertion in a housing and to drive a compressor wheel, the electric motor cartridge (1) comprising:
 - a first cartridge housing portion (2);
 - a second cartridge housing portion (3); and
 - a rotor (21):

15

- the cartridge housing portions (2, 3) being coupled together so as to assemble the electric motor cartridge (1) by radially and axially positioning encapsulating a stator (4) there between,
 - wherein each cartridge housing portion (2, 3) has a semi-shell shape substantially comprised by a bottom portion (5, 6) and a cylindrical wall portion (7, 8).
 - wherein at least one of the cylindrical wall portions (7, 8) forms a contact (14, 15) upon insertion of the assembled electric motor cartridge (1) in a housing.
- wherein one of the bottom portions (6) forms part of a fixed

 20 encapsulation barrier between the stator (4) and a compressor wheel to be driven by the assembled electric motor cartridge (1),

Ser. No. 10/553.568

wherein each cartridge housing portion (2, 3) provides a bore (12, 13) in the center of its bottom portion (5, 6),

characterized in that

the rotor (21) has peripheral portions (22, 23) inserted through the bores (12, 13) of the cartridge housing portions (2, 3) and a through hole axially extending through the rotor (21) and its peripheral portions (22, 23) for inserting a shaft (34) through the rotor (21).

- 2 (Currently amended). The Electric-electric motor cartridge (1) according to claim 1, wherein at least one of the cartridge housing portions (2, 3) is provided with at least one recess portion (9, 10) formed at the inner side of the axial end portion of the cylindrical wall portion (7, 8) which extends at least partially in the circumferential direction of the cylindrical wall (7, 8) for receiving a projection (11) of the stator (4).
- 3 (Currently amended). The Electric electric motor cartridge (1) according to claim 2, wherein each cartridge housing portion (2, 3) is provided with one recess portion (9, 10), wherein the recess portions (9, 10) are symmetrically to a plane defined by the abutting tips of the cylindrical wall end portions.

10

15

10

20

4 (Currently amended). The Electric electric motor cartridge (1) according to claim 3, wherein at least one of the bottom portions (5, 6) is formed at least partly concave inwardly.

5 (Currently amended). The Electric electric motor cartridge (1) according to claim 4, wherein at least one contact area (14, 15) is formed at each of the cartridge housing portions (2, 3) so as to be in contact with respective counter contact areas of two housings (1831, 19) between which the cartridge (1) is fittable.

6 (Currently amended). The Electric motor cartridge (1) according to claim 5, wherein in at least one of the cartridge housing portions (2, 3) a circumferentially extending groove (16) is disposed so as to receive an o-ring (17) for sealing between the cartridge housing (2, 3) and one of the two housings (4831, 19) between which the cartridge (1) is fittable.

7 (Canceled). Electric meter cartridge (1) according to any-one-of-the preceding claims, wherein-cooling slits and any-integrated piping for meter-cooling is integrated in at least one of the cartridge housing portions (2, 3).

8 (Currently amended). <u>The Electric electric motor cartridge</u> (1) according to any-one-of-the-preceding-claims <u>claim 1</u>, wherein the cartridge housing (2, 3) is

Response to OA of October 11, 2007

Ser. No. 10/553,568

made of punched metal, any polymer potted material, any die casting material or any sand casting material.

Page 7 of 16

9 (Currently amended). <u>The Electric electric motor cartridge</u> (1) according to claim 8, wherein the properties of the material of the cartridge housing (2, 3) contributes to heat evacuation and heat protection.

10 (Currently amended). The Electric electric motor cartridge (1) according to any of the preceding-claims claim 1, wherein the material properties of the cartridge housing contributes to electromagnetic interference protection.

- 11 (Currently amended). The Electric-electric motor cartridge (1) according to any of the preceding-claims claim 1, wherein at least one of the cartridge housings (2, 3) comprises a connector portion (20) for phases and sensor connections of an compressor motor.
- 12 (Currently amended). The Electric electric motor comprising an electric motor cartridge (1) according to any-of-claims 1-to-14 wherein the rotor (21) is encompassed by the stator (4).

20

15

5

10

13 (Currently amended). <u>The Electric electric motor according to claim 12</u>, wherein the rotor (21) comprises two peripheral portions (22, 23) each having a

Page 8 of 16

Response to OA of October 11, 2007

Ser. No. 10/553,568

5

10

smaller diameter compared to the diameter of a middle portion of the rotor (21) encompassed by the stator, each peripheral portion (22, 23) comprising a circumferential groove (24, 26) provided with a piston ring (25, 27) for sealing between the inside and the outside of the cartridge (1), wherein the rotor (21) is supported at the two peripheral portions (22, 23) by the bores (12, 13).

14 (Currently amended). The Electric-electric motor according to claim 12-er-43, further comprising material removal areas on said rotor (21) providing a unitary rotational mass distribution of the rotor.

15 (Currently amended). The Electric electric motor according to claim 12, 13 or 14 further comprising a sensor member (28) for detecting the speed of the rotor (21).

- 15 (Currently amended). <u>The Electric electric motor according to any ef-claims</u> 12 to 15, wherein phases and sensors connections are arranged in the connector portion (20) such that they plug directly to wiring end connections when assembling the compressor motor.
- 20 17 (Currently amended). <u>A Turbocharger turbocharger comprising an electric motor according to any-of claims 12-to-46 and further comprising</u>

Response to OA of October 11, 2007 Page 9 of 16

Ser. No. 10/553,568

10

a turbine housing (18) for accommodating a turbine wheel (29) driven by exhaust gas:

a center housing (31) for accommodating a shaft (34) and the electric motor, the shaft serving as a rotor (21) of the electric motor and extending from the turbine wheel (29) through a journal bearing (35) and the electric motor to a compressor wheel (32):

a compressor housing (19) for accommodating the compressor wheel (32); wherein

the compressor wheel (32) is driven by the turbine wheel (29) via the shaft (34) and can additionally be driven by the electric motor, and

the electric motor is accommodated in the center housing (31) such that the electric motor is firmly fixed by connecting the center housing (31) to the compressor housing (19).

- 15 18 (Currently amended). A Turboeharger-turbocharger according to claim 17, wherein one of the cartridge housing portions (2) serves as a seal plate on the journal bearing (35) side and the other cartridge housing portion (3) serves as a backplate on the compressor wheel (32) side.
- 20 19 (Currently amended). <u>A Gempresser-compressor comprising an electric motor according to any of-claims 12-to-16 and further comprising</u>

Response to OA of October 11, 2007 Page 10 of 16

Ser. No. 10/553,568

a motor housing for accommodating a shaft and the electric motor, the shaft serving as a rotor of the electric motor and carrying a compressor wheel; and a compressor housing for accommodating the compressor wheel; wherein the electric motor is accommodated in the motor housing such that the compressor motor is firmly fixed by connecting the motor housing to the compressor housing.